CLAIMS

1.	(Twice Amended) A method for allocating real-time audio data from a first		
plurality of audio channels in a system having a first processor and a second processor, the			
method comp	orising:		

providing a second plurality of memory banks of semiconductor memory devices, each memory bank being accessible to the first and second processors for operations selected from the group comprising read and write operations; and

storing subsets of said audio data in the second plurality of memory banks, the subsets corresponding to different groups of audio channels.

 $2 \quad \text{banks for}$

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(Amended) The method of claim 1, further comprising selecting said memory banks for access by one of the first and second processors.

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The method of claim wherein one subset of said audio data corresponds to evennumbered audio channels and one other subset of said audio data corresponds to odd-numbered audio channels.

5. (Twice Amended) A system having first and second buses for processing realtime audio data from a first plurality of audio channels, the system comprising:

a first processor and a second processor coupled to said first and second busses, respectively; and

a second plurality of memory banks of semiconductor memory devices coupled to said first and second buses for storing said audio data, said second plurality of memory banks being accessible to the first and second processors for operations selected from the group comprising read and write operations, said second plurality of memory banks storing subsets of audio data, said subsets corresponding to different groups of audio channels.

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sul con	2 3	6. (Amended) The system of claim 5 further comprises a plurality of selectors coupled said first and second buses to select said memory banks for access by one of said first and second processors. 7. (Amended) The system of claim 6 wherein the plurality of selectors include a plurality of address multiplexers and data transceivers.
DE.	1 2	8. The system of claim 5 wherein one subset of said audio data corresponds to even- numbered audio channels and one other subset of said audio data corresponds to odd-numbered audio channels.
sul		9. (Amended) The system of claims 5, wherein the memory banks include dynamic random access memories.
AU.	1 2	10. The method of claim 1, wherein storing further comprises interleaving the subsets of data. The system as set forth in claim 5, wherein the subsets are stored in the memory
·	2	banks in an interleaving manner.
	1 2	12. The method of claim 1, wherein storing comprises storing one of the subsets of audio data in one of the memory banks, said method further comprising reading stored audio data
	3	from a second of the memory banks.
	1	13. The method as set forth in claim 1, wherein the first processor performs a read
	2	operation on a first memory bank of the plurality of memory banks and the second processor
	3	performs a write operation on a second memory bank of the plurality of memory banks.
M	1	14. The system of claim 5, wherein subsets of audio data are stored in one of the

memory banks and stored audio data is read from a second memory bank of the memory banks.

 E^{4} \int_{1}^{2} \int_{2}^{2}

operation on a first memory bank of the plurality of memory banks and the second processor performs a write operation on a second memory bank of the plurality of memory banks.

